

IN THE CLAIMS

The following represents a complete description of the present status of the claims in the subject application including current amendments:

1-42 (canceled).

43 (currently amended). A cardiac electrical stimulation system having an autocapture/stimulation/sensing configuration for use with atrial and ventricular leads, said cardiac electrical stimulation system including:

- (a) at least two electrodes, at least one each being selected from ~~any one~~ each of at least two groups of electrodes consisting of atrial electrodes, ventricular electrodes, can electrodes and vena cava electrodes and wherein at least one electrode is selected from two of the groups consisting of atrial electrodes and ventricular electrodes;
- (b) a stimulation system enclosed in a housing, said stimulation system being electrically coupled to ~~at least one~~ each said atrial electrode and ~~one~~ each said ventricular electrode for providing an electrical stimulus to at least one of an atrium or ventricle of a heart;
- (c) a sensing circuit that senses an evoked response by the heart to the electrical stimulus, wherein a signal

associated with an evoked response from the electrical stimulus is sensed between at least two of said electrodes; and

- (d) an afterpotential attenuation device for attenuating afterpotentials which result due to the application of the pacing stimulus to the heart by said electrical stimulation system, said afterpotential attenuation device being electrically coupled to said stimulation system.

44(currently amended). A cardiac electrical stimulation system having an autocapture stimulation/sensing configuration for use with atrial and ventricular leads, said cardiac electrical stimulation system including:

- (a) at least two electrodes, at least one each being selected from each of at least two groups of electrodes consisting of atrial electrodes, ventricular electrodes, can electrodes and vena cava electrodes and wherein at least one electrode is selected from two of the groups consisting of atrial electrodes and ventricular electrodes;
- (b) a stimulation means enclosed in a housing, said stimulation means being electrically coupled to ~~at least one~~ each said atrial electrode and ~~one~~ each said ventricular electrode for providing an electrical

stimulus to at least one of an atrium or ventricle of a heart;

- (c) a sensing means that senses an evoked response by the heart to the electrical stimulus, wherein a signal associated with an evoked response from the electrical stimulus is sensed between at least two of said electrodes; and
- (d) an afterpotential attenuation means for attenuating afterpotentials which result due to the application of the pacing stimulus to the heart by said electrical stimulation means, said afterpotential attenuation device being electrically coupled to said stimulation means.

45(currently amended). A cardiac electrical stimulation system as in claim 43 further comprising an atrial lead including ~~said~~ an atrial electrode, said atrial electrode being selected from the group consisting of ~~at least one of an~~ atrial tip electrodes and an atrial ring electrodes, and a ventricular lead including a ventricular electrode, said ventricular electrode being selected from the group consisting of at least one of a ventricular tip electrodes, ~~a ventricular superior vena cava electrode~~, a ventricular coil electrodes, and a ventricular ring electrodes.

46-51(canceled).

52(currently amended). A cardiac electrical stimulation system as in claim 45 wherein the electrical stimulus conducts electrically between ~~the~~ an atrial tip electrode and the housing.

53(currently amended). A cardiac electrical stimulation system as in claim 45 wherein the electrical stimulus conducts electrically between ~~the~~ a ventricular tip electrode and the housing.

54(currently amended). A cardiac electrical stimulation system as in claim 44 further comprising an atrial lead including ~~said~~ an atrial electrode, said atrial electrode being selected from the group consisting of ~~at least one of an~~ atrial tip electrodes, ~~and an~~ atrial ring electrodes, and a ventricular lead including a ventricular electrode, said ventricular electrode being selected from the group consisting of ~~at least one of a~~ ventricular tip electrodes and a ventricular ring electrodes.

55(canceled).

56(currently amended). A cardiac electrical stimulation system as in claim 54 wherein the signal associated with the evoked response is sensed between ~~the~~ an atrial ring electrode and ~~one of said~~ a ventricular electrodes.

57(currently amended). A cardiac electrical stimulation system as in claim 54 wherein the electrical stimulus conducts electrically between ~~the~~ an atrial tip electrode and the housing.

58(currently amended). A cardiac electrical stimulation

system as in claim 54 wherein the electrical stimulus conducts electrically between ~~the~~ a ventricular tip electrode and the housing.

59(currently amended). A cardiac electrical stimulation system as in claim 45 wherein the signal associated with the evoked response is sensed between one of an atrial ring electrode to ventricular ring electrode, atrial ring electrode to can electrode, atrial ring electrode to ventricle coil electrode, atrial ring electrode to superior vena cava coil electrode, atrial tip electrode to ventricular coil electrode, atrial tip electrode to ventricular tip electrode, atrial tip electrode to atrial ring electrode, superior vena cava coil electrode to atrial tip electrode, superior vena cava coil electrode to ventricular coil electrode, superior vena cava coil electrode to ventricular tip electrode, ventricular tip electrode to ventricular coil electrode, superior vena cava coil electrode to ventricular ring electrode, and ventricular ring electrode to ventricular coil electrode.

60(previously added). A cardiac electrical stimulation system as in claim 43 wherein said an afterpotential attenuation device further comprises first and second coupling capacitors.

61(previously added). A cardiac electrical stimulation system as in claim 60 wherein said first coupling capacitor is less than five microfarads and wherein said second coupling

capacitor is greater than ten microfarads.

62 (previously added). A cardiac electrical stimulation system as in claim 44 wherein said an afterpotential attenuation means further comprises first and second coupling capacitors.

63 (previously added). A cardiac electrical stimulation system as in claim 62 wherein said first coupling capacitor is less than five microfarads and wherein said second coupling capacitor is greater than ten microfarads.

64 (currently amended). A method of automatically determining whether an electrical stimulus evokes a response in the heart when the stimulus is applied by a cardiac electrical stimulation system having atrial and ventricular leads, a pulse generator, and a sensing circuit, said method comprising the steps of:

- (a) providing an electrical stimulus to at least one of an atrium or ventricle of a heart;
- (b) attenuating afterpotential associated with said electrical stimulus;
- (c) sensing an evoked response by the heart to the electrical stimulus, wherein a signal associated with an evoked response from the electrical stimulus is sensed between at least one of an atrial electrode and a ventricular electrode of said leads; and
- (d) wherein said atrial lead includes at least one of an atrial tip electrode and an atrial ring electrode, and said ventricular lead includes at least one of a ventricular tip electrode, ~~a ventricular superior vena~~